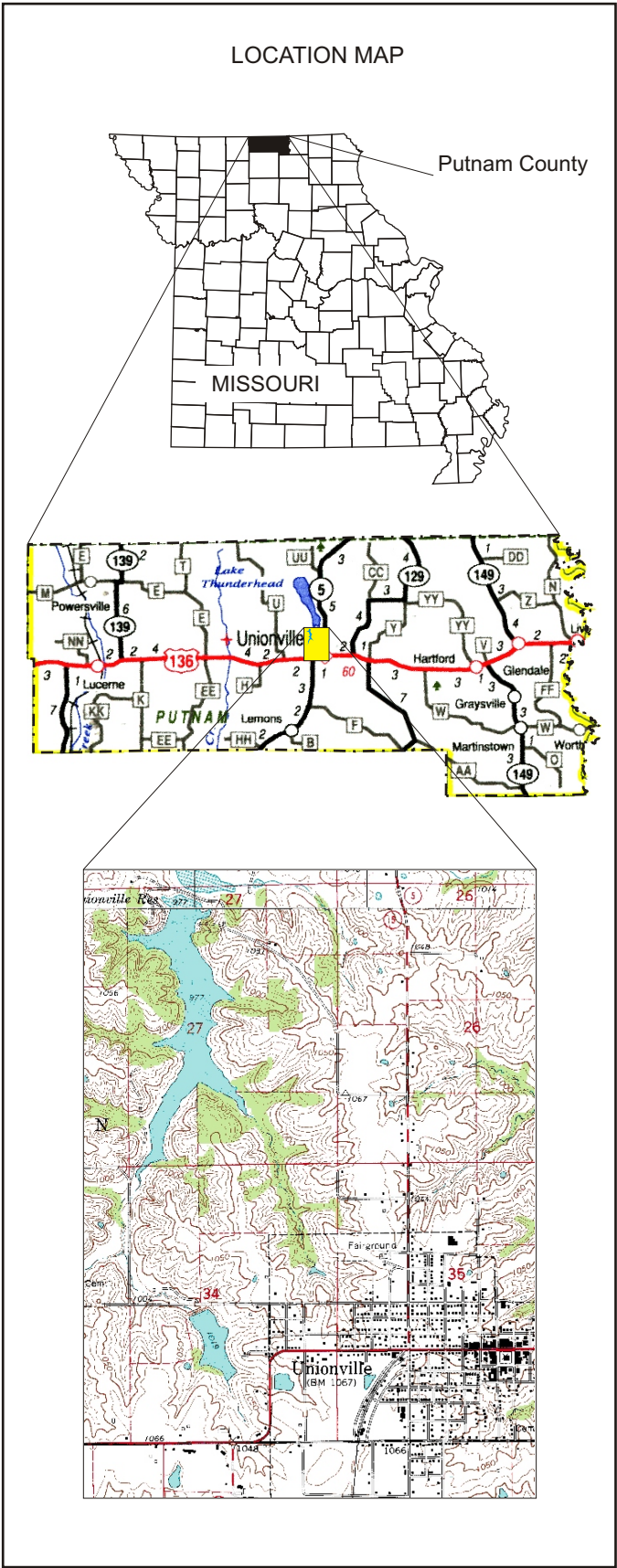
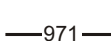



Elevation (feet)	Area (acres)	Volume (acre-ft)
959.0	1.1	0.3
961.0	7.4	8.5
963.0	14.4	30.2
965.0	21.8	66.2
967.0	31.1	120.0
969.0	39.1	190.0
971.0	45.9	270.0
973.0	52.5	370.0
975.0	60.1	490.0
977.0	72.3	620.0
977.3	75.5	640.0
979.0	98	790.0
981.0	129	1,020.0
985.0	154	1,580.0
987.0	168	1,900.0
989.0	183	2,250.0
989.5	187	2,350.0


Table 33. Lake elevations and respective surface areas and volumes. Top of spill-way structure is 977.0 feet. Top of dam is approximately 989.5 feet. Elevations referenced to North American Vertical Datum 1988 (NAVD 88).
Note: Volumes calculated from surface testing 1.50 feet vertical accuracy at 95 percent confidence level.



EXPLANATION

- 

BATHYMETRIC CONTOUR—Shows altitude of the reservoir bottom. Contour interval 2 feet. Contours tested 2.47 feet vertical accuracy at 95 percent confidence level.
- 

WATER SURFACE—Shows approximate elevation of water surface, April 6, 2004 (actual is 977.3 feet, table 33).
- 

U. S. GEOLOGICAL SURVEY REFERENCE MARKER—Chiseled arrow on curb located on north side of boat ramp. Elevation 977.4 feet.

Figure 28.4a Bathymetric map and table of areas/volumes of the Mahoney Lake near Unionville, Missouri.